



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

August 31, 2015

Ms. Melvena Heisch,
Deputy State Historic Preservation Officer
State Historic Preservation Office, Oklahoma Historical Society
Oklahoma History Center
800 Nazih Zuhdi Drive
Oklahoma City, Oklahoma 73105-7917

RE: Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Dear Ms. Heisch:

The Wilcox Oil Company Superfund Site (Site) in Bristow, Creek County, Oklahoma was listed on the National Priorities List in December 2013 under the Comprehensive, Environmental, Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund. Because this Site is listed, the United States Environmental Protection Agency (EPA) and Oklahoma Department of Environmental Quality (ODEQ) will be investigating the Site to determine the nature and extent of hazardous substances, pollutants, or contaminants as well as the human health and environmental risks that may be present as a result of former operations. Future actions at the Site may include remediation of contamination based on the results of the investigation and associated risk assessments.

This project is subject to review under Section 106 of the National Historic Preservation Act of 1966, as amended. Based on our review of the National Register of Historic Places, the history of operation, and investigations performed by ODEQ, no State cultural or historical resources or properties are located within the project boundary or will be affected by the investigation and potential remediation that will be conducted by EPA and the ODEQ.

Please find provided on the following pages, Site information to assist with your review. Documentation as detailed in Section 800.11(d) includes,

- a description of the Wilcox Oil Company Superfund Site;
- a delineation of the area of potential effects, including maps, aerial photographs, and Site photographs;
- a summary description of the effort we made to identify historic properties; and,
- the basis for determining that no historic properties are present or affected.

Due to the nature of the activities at the Site and the long-term operation of the refinery (approximately 40 to 50 years), this Site is both heavily contaminated and disturbed. Thus, there are no historic properties present which leads us to a no adverse effect determination for this Site.

Please review the material enclosed and contact me at (214) 665-8143, or coltrain.katrina@epa.gov if you have questions. If we do not hear from you within 30 days after your receipt of this letter, we will assume that you do not object to our determination of no adverse effect to historic properties. EPA will proceed with the Site investigation and remediation and will notify you as well as the Oklahoma Archeological Survey regarding any inadvertent discovery of historic properties.

Sincerely,



Katrina Higgins-Coltrain
Remedial Project Manager
LA/OK/NM Section, Superfund Division

SHPO Concurrs with Finding: _____

SHPO Review and Date: _____

Enclosure 1: Site Description and Operation History

Full Title of Site: Wilcox Oil Company Superfund Site (OK0001010917)

Federal Funding Agency: The funding agency requesting the historical review is the United States Environmental Protection Agency, Region 6.

Wilcox Oil Company Location: Reference Maps included.

Address: West 221st Street South/Refinery Road, 0.35 mile east of U.S. Highway 66

City, County, State: Bristow, Creek County, OK, 74010

Topographic Map: Bristow Quadrangle, OK

Latitude: 35°50'26.8966" N Longitude: 96°22'48.693" W

Township-Range: N ½ of the NW ¼ of S29 T16N R9E and the SW ¼ of the SW ¼ of S20 T16N R9E

Site History and Background: The Wilcox Oil Company Superfund Site (Site) is an abandoned and demolished oil refinery and associated tank farm located north of Bristow, Creek County, Oklahoma. The geographic coordinates of the Site are approximately 35°50'31" North latitude and 96°23'02" West longitude. A detailed title search in the Creek County Clerk office confirms that the property was used in oil refinery operations from approximately 1915 until November 1963. The former Lorraine refinery, including associated tank farm, covers approximately 20 of the 125 acre Site, and operated under numerous companies from approximately 1915 to 1937 when the property was sold to Wilcox Oil and Gas Company. Wilcox Oil and Gas Company purchased refinery operations on the remaining acres east of the railroad tracks and operated as a crude oil refinery from the 1920s until the property was sold on 1 November 1963.

A modern skimming and cracking plant was constructed in 1929. The upgraded facility had an operating capacity of 4,000 barrels of crude oil per day. The main components of the system consisted of a skimming plant, cracking unit, and redistillation battery with a vapor recovery system and continuous treating equipment. The crude oil was brought directly from the field, eliminating storage and handling facilities, but resulting in crude with high sediment and water.

Sanborn fire insurance maps can be used to understand historical property usage. The Wilcox Oil and Gas Company and Lorraine Refining Company Sanborn Insurance Maps indicate that the properties contained approximately 80 storage tanks of various sizes, a cooling pond, and around 10 buildings housing refinery operations. The maps also indicate that crude oil, fuel oil, gas oil, distillate, kerosene, naptha, and benzene (petroleum ether) were all stored on the property.

The Site can be divided into four major former operational areas: the Wilcox refinery, the Lorraine refinery, the north tank farm, and the east tank farm.

- The former Wilcox refinery area is fenced and covers approximately 26 acres. Most of the equipment and storage tanks that remained on-site in 1963 were auctioned and have been salvaged for scrap iron by private land owners, and what remains are in ruins. Four aboveground storage tanks (12,500 gallons each) remain standing, in addition to a number of buildings, discarded drums and pieces of scrap iron and piping. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a

hydrocarbon nature. A building in the northern part of the former refinery has been converted to a residence. An intermittent creek flows southward across the eastern portion of the refinery area through a small pond in the southeast corner of the refinery area and into Sand Creek.

- The former Lorraine refinery area covers approximately 8 acres and includes the southwestern portion of the Site, south of Refinery Road and west of the railroad. No refinery structures remain in the processing area. The First Assembly of God Church, a playground, and one residence are located here. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature.
- The East tank farm was a large crude oil storage area/tank farm covering approximately 79 acres and contains pits, ponds, and a number of circular berms that surrounded tank locations. All of the tanks have been cut down and removed; however, remnants of the tank locations remain and are visible. Many of the berms surrounding the pits, ponds, and former tanks have been cut or leveled. An intermittent creek is located in the eastern portion of the tank farm and flows south to Sand Creek. A pumping or gas compressor station exists in the north-central portion of the Site, and an active pipeline crosses from northwest to southeast across the middle of the Site. There are four residences located on top of or directly next to former tank locations. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. Waste was also observed in several drainage channels that empty into Sand Creek.
- The North tank farm was a crude and fuel oil storage area consisting of approximately 12 acres. No refinery structures remain in the product storage area, and all tanks have been cut down and removed. Remnants of the tank locations are not visible, and historic locations are difficult to pinpoint. One residence is located in this area.

After the refinery operations ceased and most of the tanks and buildings demolished and sold for scrap, the property was sold to private interests. Beginning in 1975 with the construction of the church, private residences were constructed on 6 parcels of land that were part of the former refinery operations. The most recent being constructed in 2003/2004. One former building associated with the refinery was repurposed as a residence. As a result, there are a total of seven residences on the Site, all of which are located on former tank or refinery operations locations. Three of the residences located on the eastern portion of the Site are known to use water from domestic/private wells. The drainage pattern of the Site is primarily towards Sand Creek which provides the western and southwestern boundaries of the Site. Two intermittent streams and several drainage channels cross the portion of the Site east of the railroad and flow into Sand Creek.

The refinery waste source areas of concern include a backfilled oily waste pond and pit, a breached settling pond, a former pond apparently backfilled with solid refinery waste, and a number of former tank storage areas. The contaminants of concern are metals and organic compounds (Total Petroleum Hydrocarbons (TPH) and Polycyclic Aromatic Hydrocarbons (PAHs)). These potential contaminants of concern are found in soil, sediment, and waste material.

Investigation History: Multiple investigations have been performed on the Site since 1994. These documents were used to summarize the Site background and operational history described above.

- Preliminary Assessment (PA) was performed at the former Wilcox Refinery Site by the Oklahoma Department of Environmental Quality (ODEQ) in December 1994.
- Expand Site Inspection (ESI) was performed at the former Wilcox Refinery Site for the Environmental Protection Agency (EPA) in March 1997.
- Site Assessment (SA) was performed at the former Wilcox Refinery Site by EPA in March 1999.
- PA was performed at the former Lorraine Refinery Site by ODEQ in September 2008.
- Site Inspection (SI) was performed at the former Lorraine Refinery Site by ODEQ in August 2009.
- ESI was performed at the former Lorraine Refinery Site by ODEQ in September 2010.
- ESI was performed at the former Wilcox Refinery Site by ODEQ in September 2011.
- Hazard Ranking System Package completed in May 2013.
- Residential Sampling completed 2015. Data review is underway.
- 2015: Planned and ongoing RI investigation by EPA including geophysical and direct sensing techniques.

Cleanup History: The following actions have been taken at the Site.

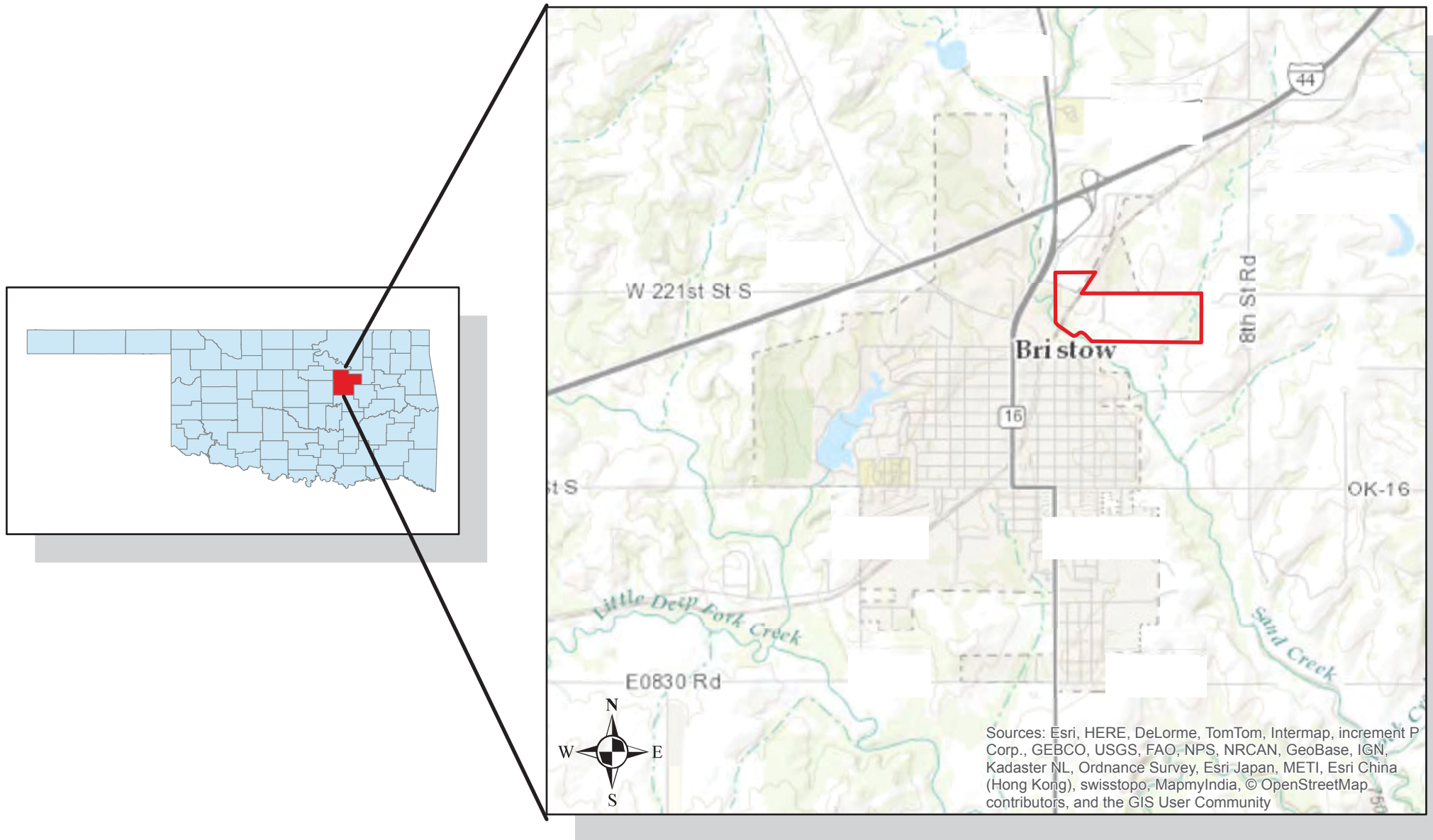
- EPA and ODEQ met with residents on March 24 and 25, 2015, to talk about property sampling. As a result, the EPA sampled 9 residential properties in May/June 2015 and fenced additional areas of concern.
- In November 2014, ODEQ informed EPA that there was a potential elevated level of lead in the blood of a child living on the Site. The EPA developed a sampling plan and sampled the property in December 2014.
- In July 2014, the EPA installed a cap on the drinking water well near the Church on the Site and put up a fence with signs around an area of concern.
- Currently, ODEQ is performing quarterly testing of drinking water wells for residents in and around this Site. No Maximum Contaminant Levels (MCLs) have been exceeded.

Cleanup Status: This Site is currently in the Remedial Investigation and Feasibility Study phase of the Superfund process. The RI/FS identifies the type and extent of contamination, evaluates if there is a health risk for humans and wildlife, identifies a list of cleanup options that can be used to cleanup the contamination at the Site, and estimates the cost of each cleanup option. Based on results of the RI/FS phase, a Proposed Plan is written to identify the preferred cleanup option and the cost. The Proposed Plan is expected to be released to the public for review and comment in 2018.

Enclosure 2: Delineation of the area of potential effects, including maps, aerial photographs, and Site photographs

Enclosure 2a: Delineation of the area of potential effects

Wilcox Oil Company Superfund Site Bristow, OK



North Tank Farm

Loading Dock

Lorraine
process area

Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 8/19/1941

0 330 660 Feet
August 21, 2015

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
Boundaries are approximate.

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Wilcox Oil Company 2014 Aerial Photograph

North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google Earth

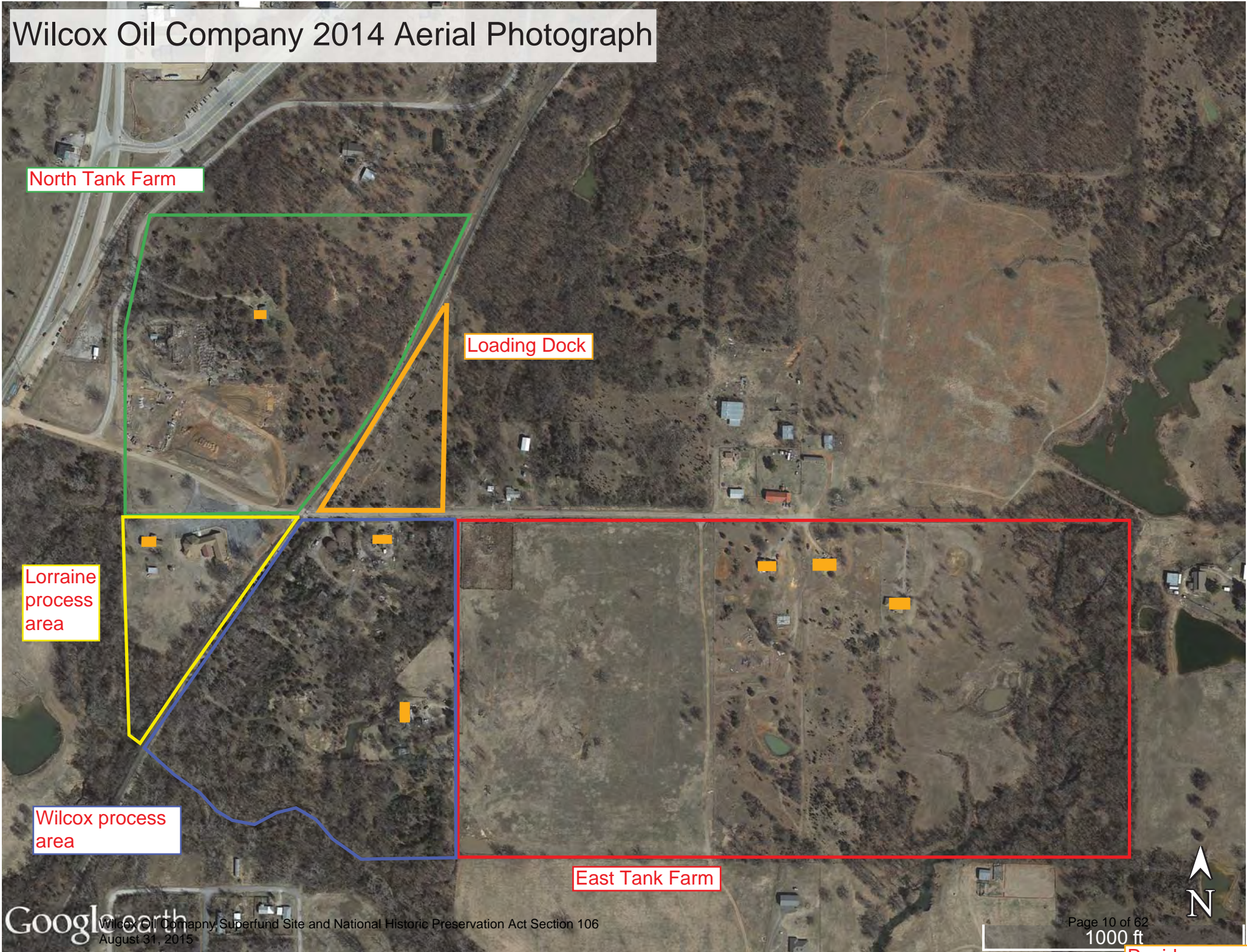
Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 31, 2015

Boundaries are approximate.

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1000 ft



Residence



Wilcox/Lorraine Refinery

Refinery Rd

Bristow, OK 74010

Inquiry Number: 3313889.1

May 01, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

5/01/12

Site Name:

Wilcox/Lorraine Refinery
Refinery Rd
Bristow, OK 74010

Client Name:

Dynamac Corporation
1202 Executive Drive West
Richardson, TX 75081

EDR Inquiry # 3313889.1

Contact: Kris Lloyd



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Dynamac Corporation were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Wilcox/Lorraine Refinery
Address: Refinery Rd
City, State, Zip: Bristow, OK 74010
Cross Street:
P.O. # NA
Project: S109-20F
Certification # 398F-439D-A25F



Sanborn® Library search results
Certification # 398F-439D-A25F

Maps Provided:

1961
1923
1920
1915

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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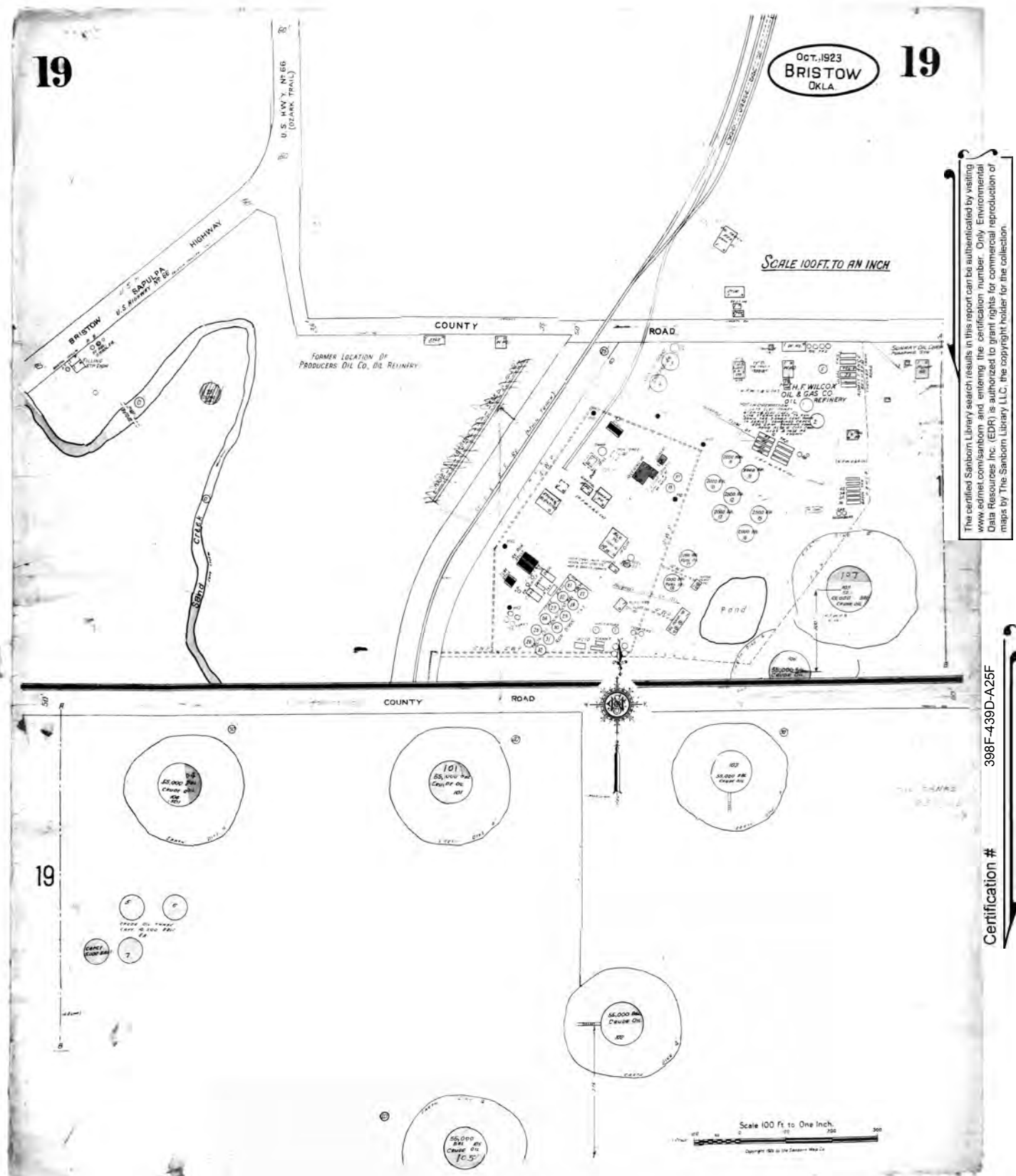
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1961 Certified Sanborn Map



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398F-439D-A25F

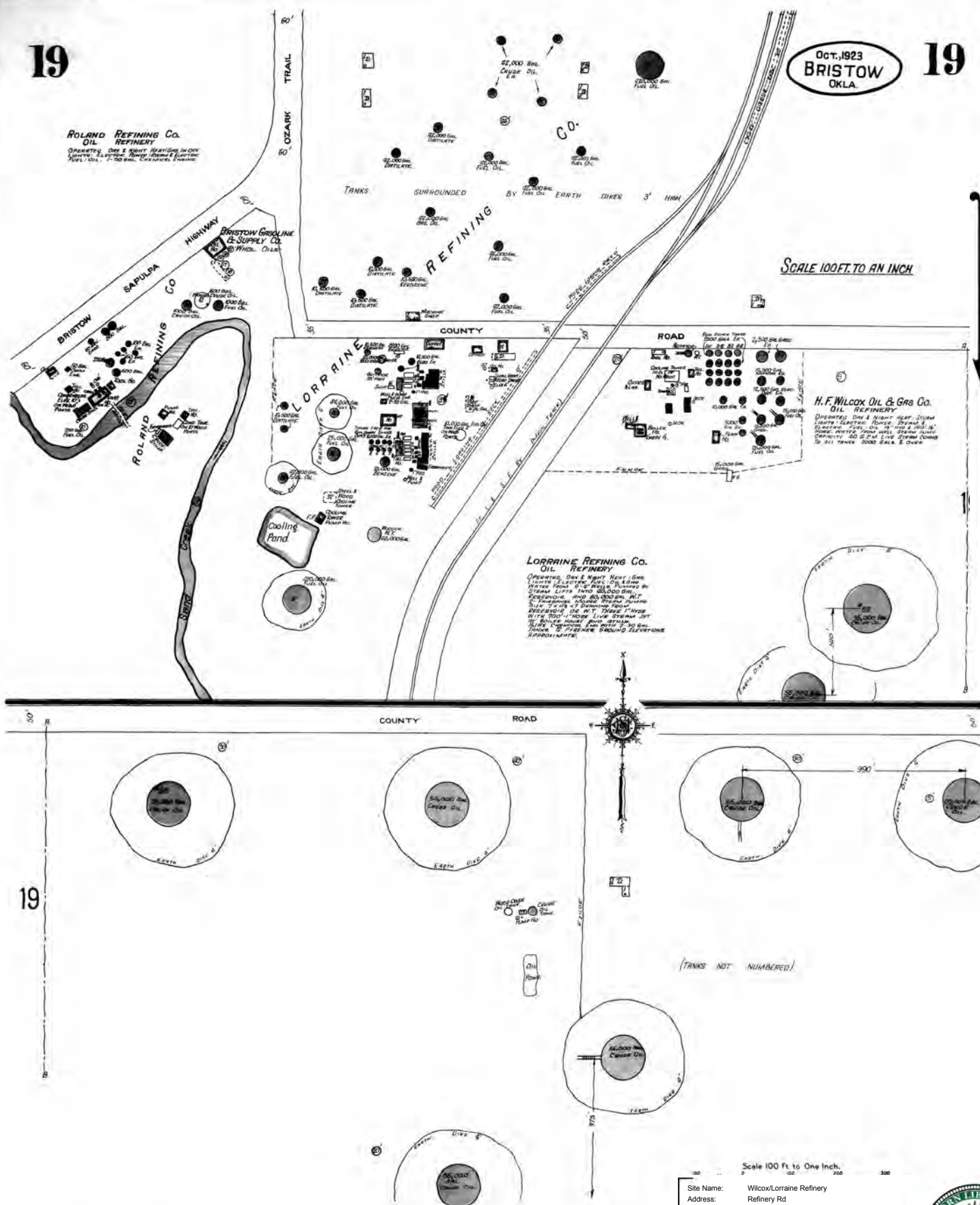
Certification #

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 31, 2015

Site Name:	Wilcox/Lorraine Refinery
Address:	Refinery Rd
City, ST, ZIP:	Bristow OK 74010
Client:	Dynamac Corporation
EDR Inquiry:	3313889.1
Order Date:	5/1/2012 4:35:02 PM
Certification #	398F-439D-A25
Copyright:	1961



1923 Certified Sanborn Map



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Certification #

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 31, 2015

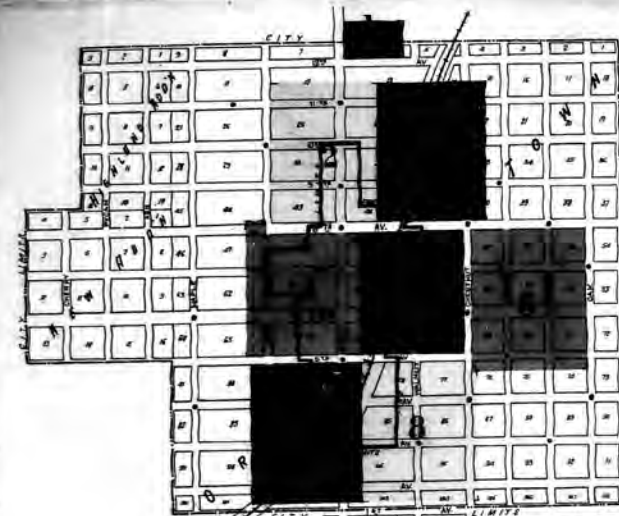
Scale 100 Ft to One Inch.

Site Name: Wilcox/Lorraine Refinery
Address: Refinery Rd
City, ST, ZIP: Bristow OK 74010
Client: Dynamac Corporation
EDR Inquiry: 3313889.1
Order Date: 5/1/2012 4:35:02 PM
Certificate #: 398F-439D-A25F
Copyright: 1923

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1920 Certified Sanborn Map



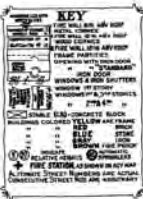
WATER FACILITIES

Continued gravity and direct pressure system of water works. Supply from 8 deep wells. One 8" well 200 deep with double action pump and 12" 4" operated by oil engine. Electric driven air compressor with double action pump and 12" 4" operated by oil engine. Electric driven air compressor with double action pump and 12" 4" operated by oil engine. Electric driven air compressor with double action pump and 12" 4" operated by oil engine.

FIRE DEPT.

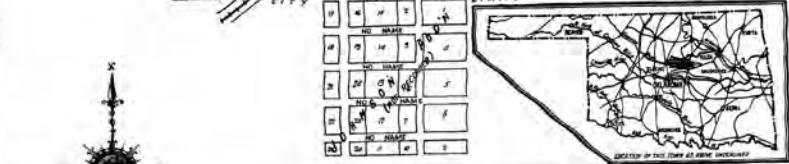
Volunteer. 2 men including chief, two men equipped at fire house. One fire hose truck with 750' 2 1/2" hose and 2 1/2" nozzle. One fire engine with 200' 2 1/2" hose and 2 1/2" nozzle. One fire engine with 200' 2 1/2" hose and 2 1/2" nozzle. One fire engine with 200' 2 1/2" hose and 2 1/2" nozzle.

Grades light; three blocks of brick paved streets. Public lights electric.

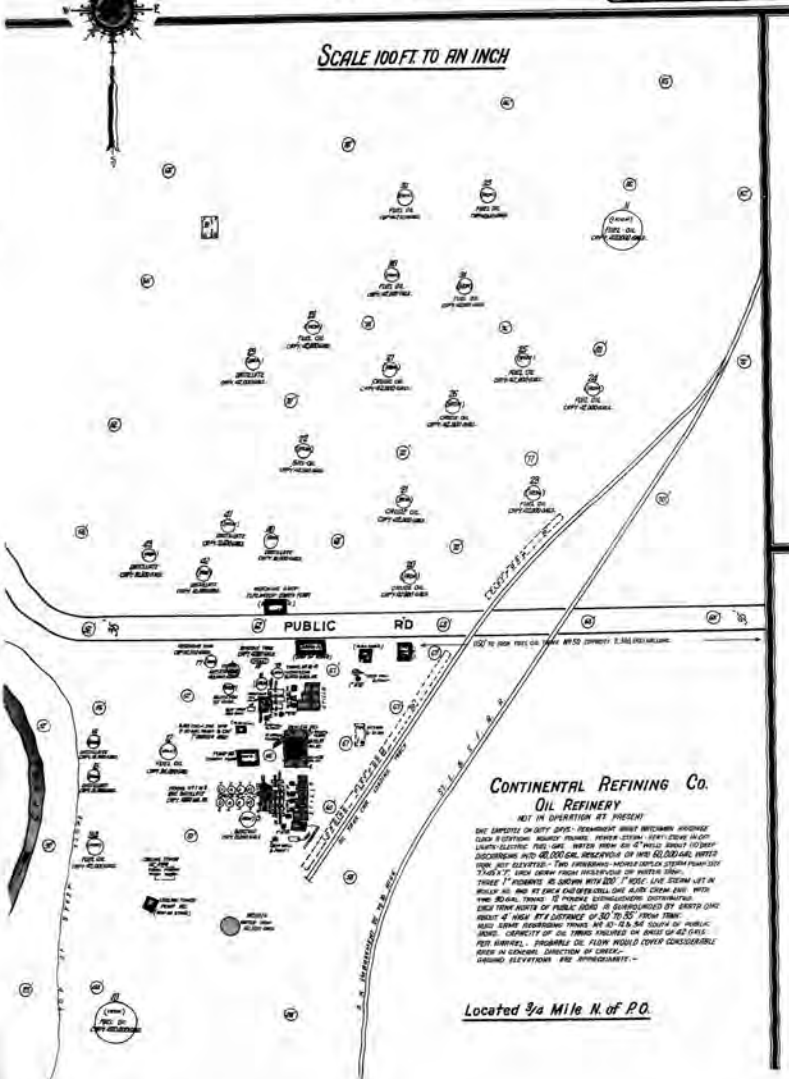


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Forty-seventh Ave.	1-12	Forty-eighth Ave.	1-12
Forty-ninth Ave.	1-12	Fiftieth Ave.	1-12



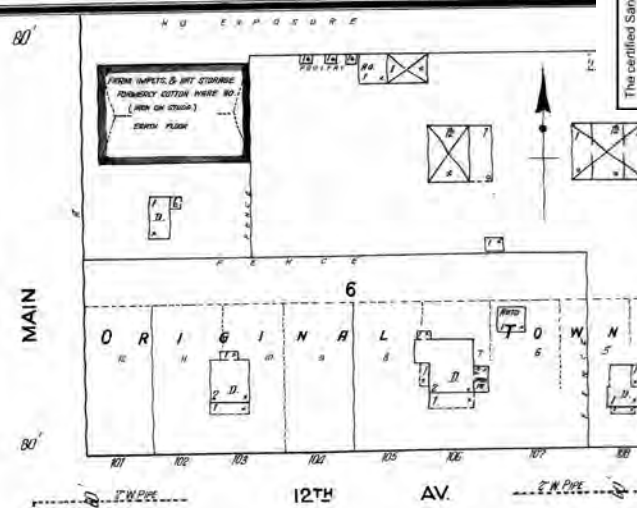
SCALE 100 FT. TO AN INCH



CONTINENTAL REFINING Co. OIL REFINERY

NOT IN OPERATION AT PRESENT
DUE TO LACK OF OIL. THE REFINERY WAS BUILT IN 1910 AND WAS CAPABLE OF PRODUCING 100,000 GALLONS OF OIL PER DAY. THE REFINERY WAS BUILT IN 1910 AND WAS CAPABLE OF PRODUCING 100,000 GALLONS OF OIL PER DAY. THE REFINERY WAS BUILT IN 1910 AND WAS CAPABLE OF PRODUCING 100,000 GALLONS OF OIL PER DAY.

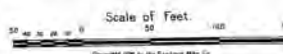
Located 1/4 Mile N. of P.O.



INDIANHOMA REFINING COMPANY RELAY OIL PUMPING STATION

NOT IN OPERATION AT PRESENT
DUE TO LACK OF OIL. THE PUMPING STATION WAS BUILT IN 1910 AND WAS CAPABLE OF PUMPING 100,000 GALLONS OF OIL PER DAY. THE PUMPING STATION WAS BUILT IN 1910 AND WAS CAPABLE OF PUMPING 100,000 GALLONS OF OIL PER DAY.

Located 1 Mile N. of P.O.



Site Name: Wilcox/Lorraine Refinery
Address: Refinery Rd
City, ST, ZIP: Bristow OK 74010
Client: Dynamac Corporation
EDR Inquiry: 3313889.1
Order Date: 5/12/2012 4:35:02 PM
Certification #: 398F-439D-A25F
Copyright: 1920

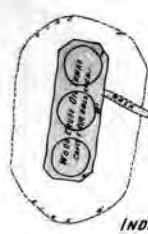


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Certification #

1915 Certified Sanborn Map

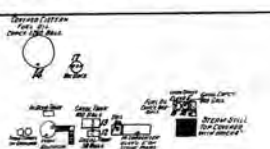


**INDIANOMA REFINING CO.
RELAY OIL PUMPING STATION**

BUCKS 20" & 10" - 10000 GAL. POWER STATION
HEAT STATION IN 1000 GAL. - 10000 GAL. - 10000 GAL.
IN TANKS - 10000 GAL. - 10000 GAL. - 10000 GAL.

Located 1 Mile N. of P.O.
No Exposure - No Side

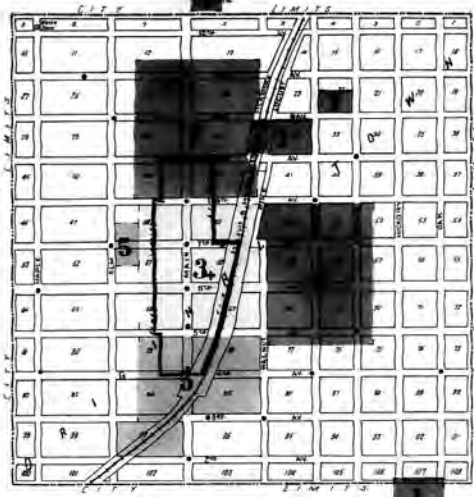
PUBLIC ROAD



**CONTINENTAL REFINING CO.
OIL REFINERY**

BUCKS 20" & 10" - 10000 GAL. POWER STATION
HEAT STATION IN 1000 GAL. - 10000 GAL. - 10000 GAL.
IN TANKS - 10000 GAL. - 10000 GAL. - 10000 GAL.

Located 1 Mile N. of P.O.
No Exposure - No Side

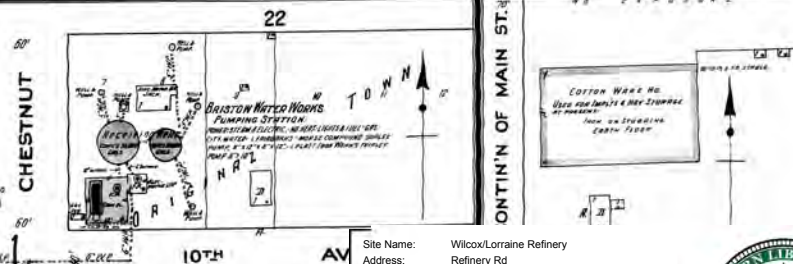
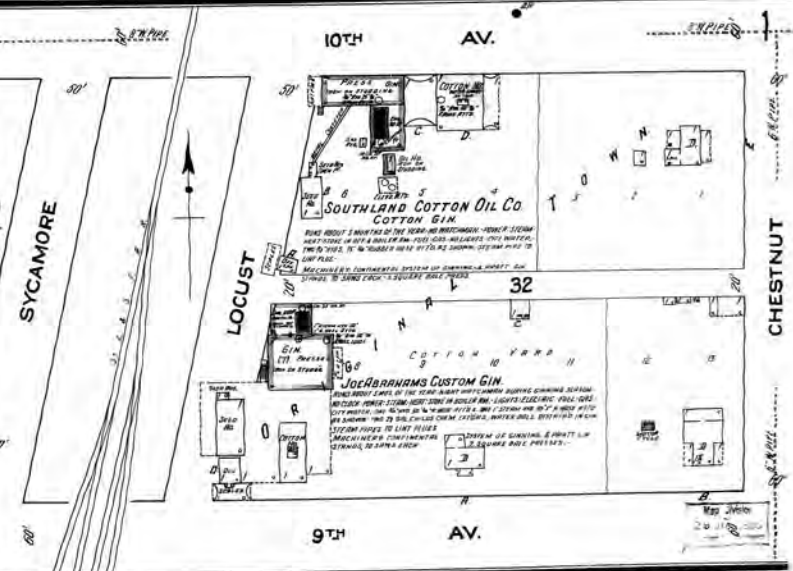
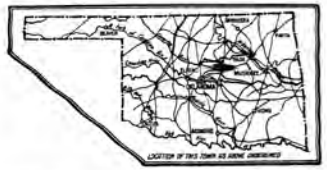


NOTES/FACILITIES:
Direct & gravity system. Storage of 10000 gal. in 10' tanks.
5 Jack Pumps 10' & 12' capacity, 10000 gal. per minute each
Driven by 10 motor pump, pump from wells into receiving
wells, combined capacity 100,000 gal. per minute.
Pump 10' & 12' capacity, 10000 gal. per minute, driven by 10 HP
electric motor, pump from receiving wells into main
10' tanks. 10' tanks, 10000 gal. capacity, 10000 gal. capacity.
Daily consumption 100,000 gal. Domestic pressure 10' & 12'
fire pressure 10000 gal. 25 miles of 4" & 6" main, 10000
10' miles of 2" main, 10000 gal. making complete circuit,
all mains, 10' double hydraulic.
Stand pipe, capacity 10000 gal. base elevated 10' above
business section.

FIRE DEPT:
Volunteer Co. of 10 Men. 2 Hose Carts. 2000' 25' C.R. 1000
in good condition.
Fire alarm members of fire dept. called by telephone.
Grades level, streets not paved. Public lights electric.

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48th Ave.	48-48	48th Ave.	48-48
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50th Ave.	50-50	50th Ave.	50-50



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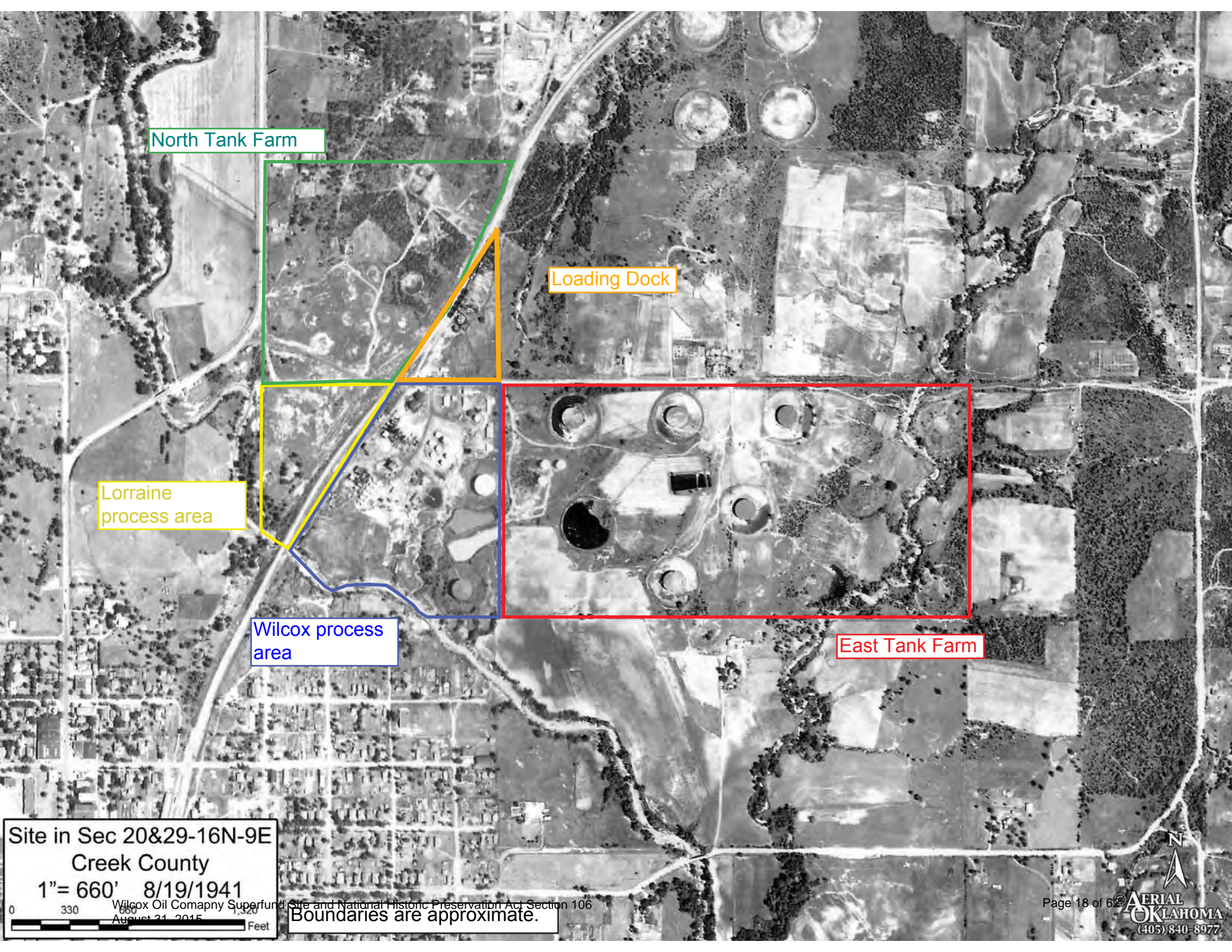
398F-439D-A25F

Certification #

Site Name: Wilcox/Lorraine Refinery
Address: Refinery Rd
City, ST, ZIP: Bristow OK 74010
Client: Dynamac Corporation
EDR Inquiry: 3313889.1
Order Date: 5/12/2014 4:35:02 PM
Certification #: 398F-439D-A25F
Copyright: 1915



Enclosure 2b: Aerial photographs



North Tank Farm

Loading Dock

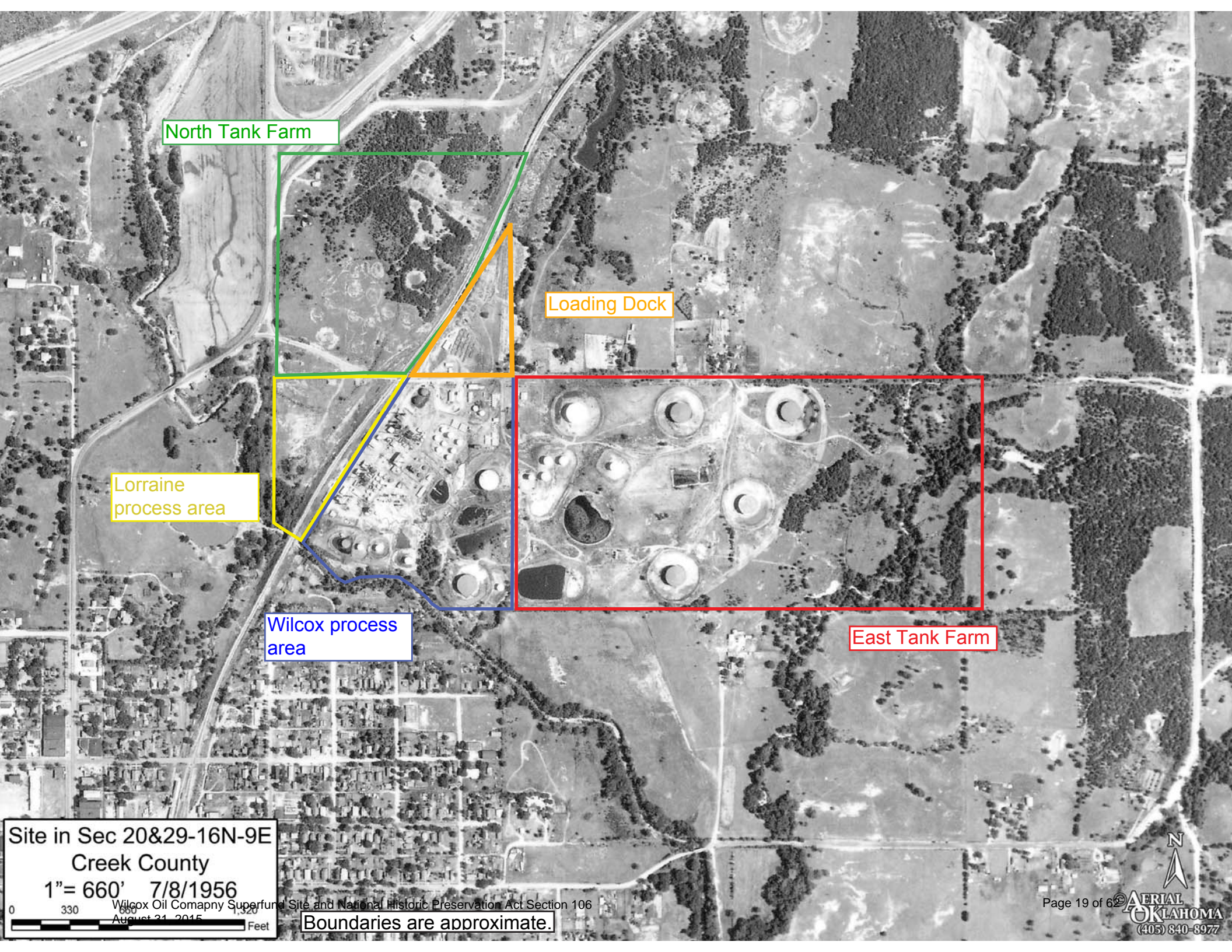
Lorraine
process area

Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 8/19/1941
0 330 660 Feet
Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 21, 2015

Boundaries are approximate.



North Tank Farm

Loading Dock

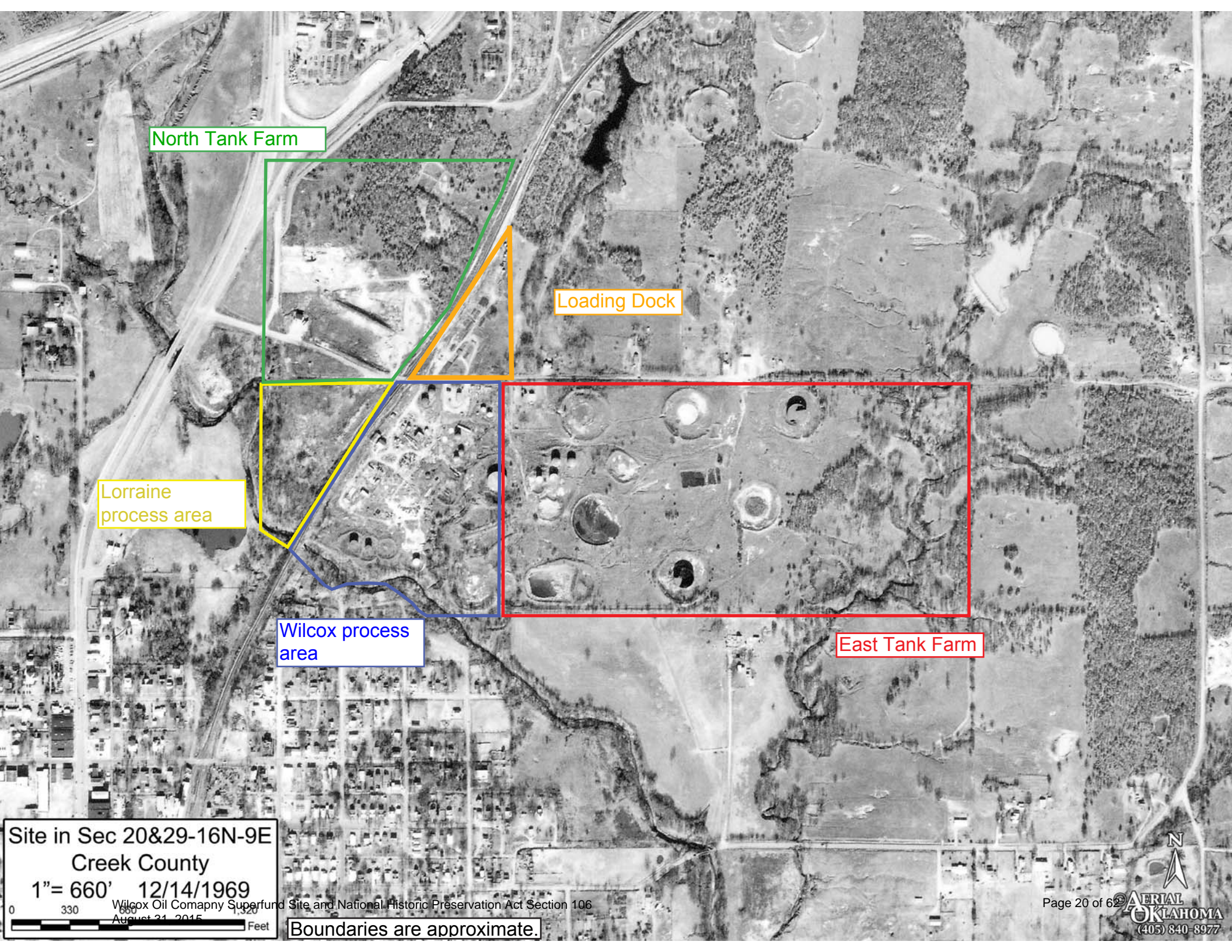
Lorraine
process area

Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 7/8/1956
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Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 21, 2015

Boundaries are approximate.



North Tank Farm

Loading Dock

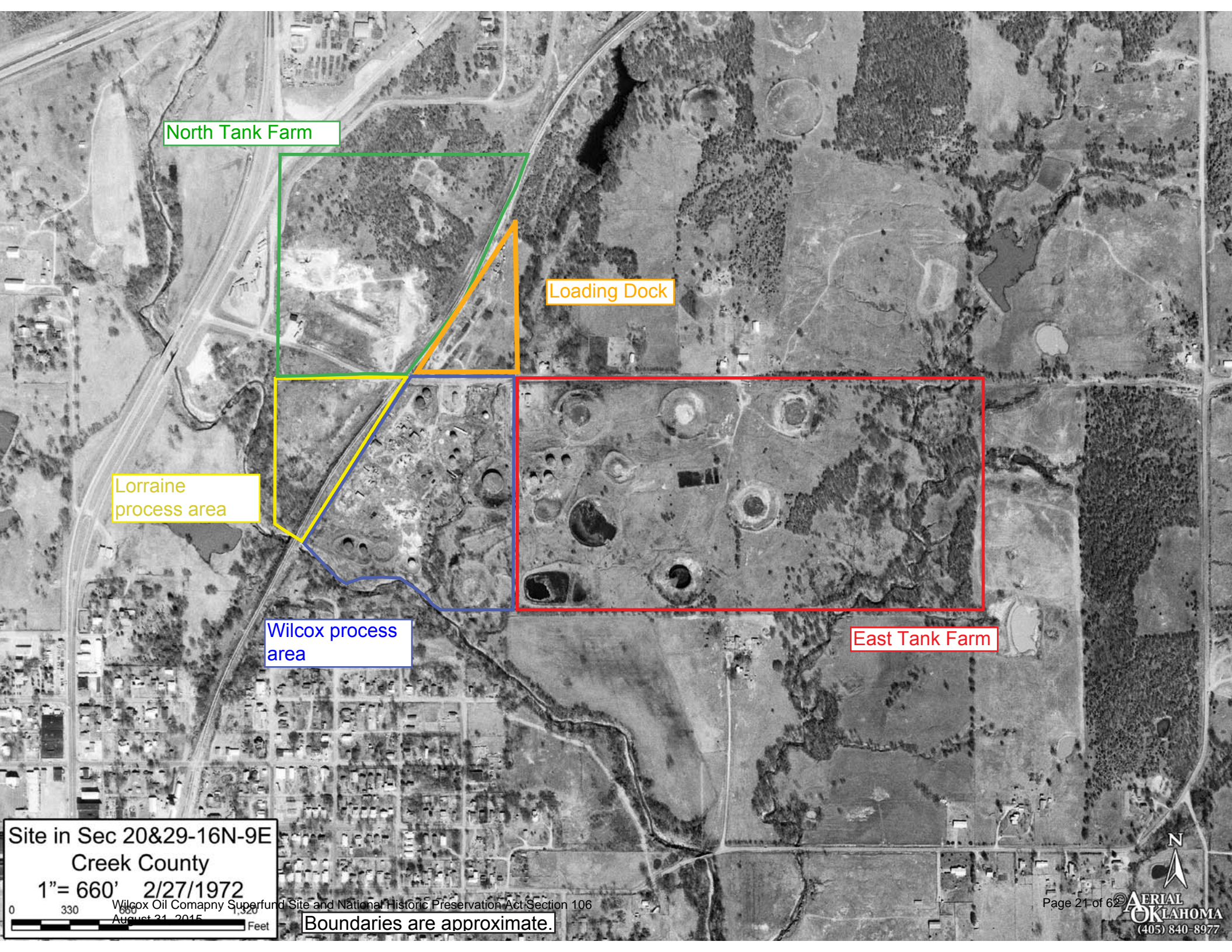
Lorraine
process area

Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 12/14/1969
0 330 660 Feet
Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 21, 2015

Boundaries are approximate.



North Tank Farm

Loading Dock

Lorraine
process area

Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 2/27/1972
0 330 660 Feet
Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 21, 2015

Boundaries are approximate.

North Tank Farm

Loading Dock

Lorraine
process area

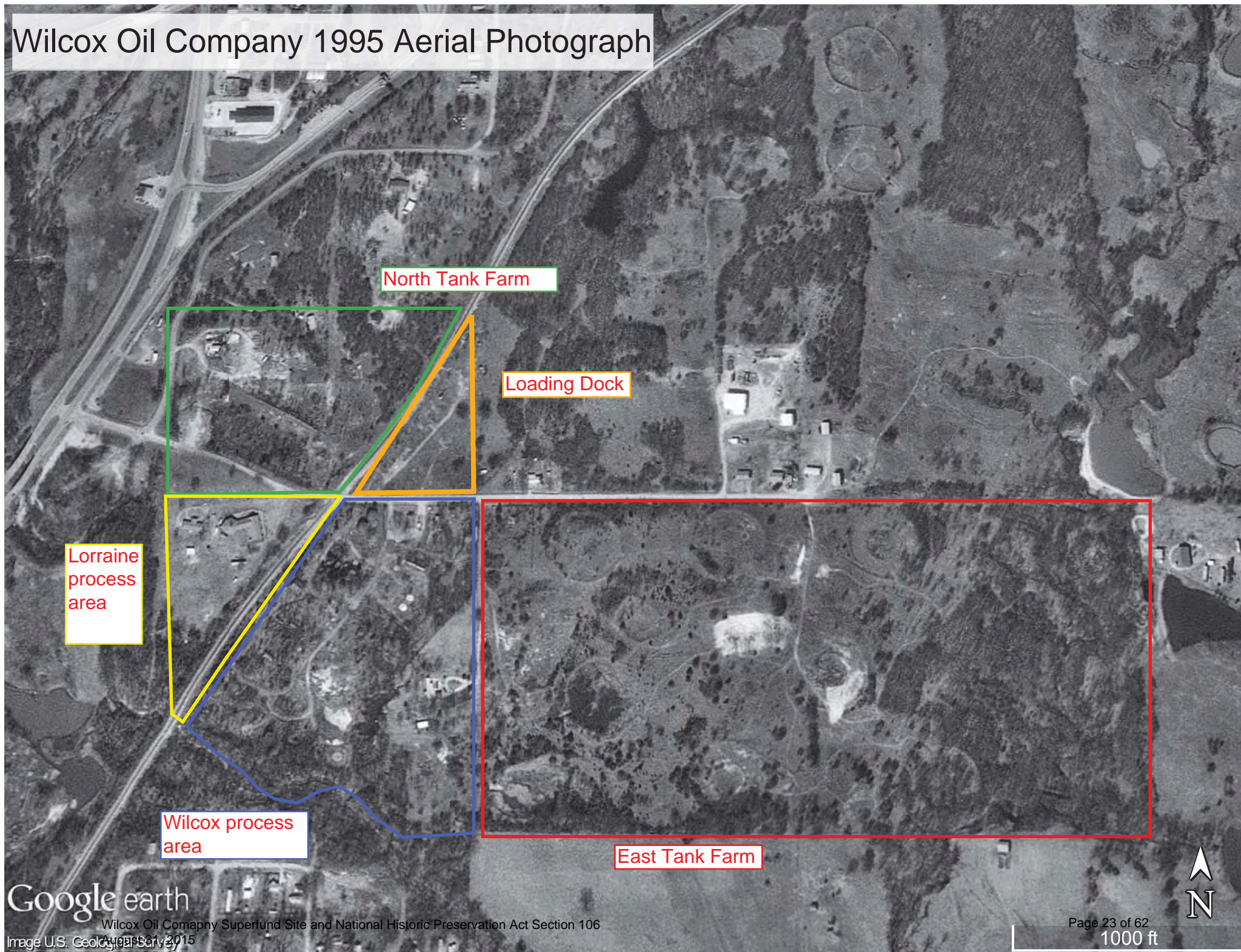
Wilcox process
area

East Tank Farm

Site in Sec 20&29-16N-9E
Creek County
1"= 660' 11/5/1979
0 330 660
Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
August 21, 2015
Feet

Boundaries are approximate.

Wilcox Oil Company 1995 Aerial Photograph



North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image U.S. Geological Survey 2015

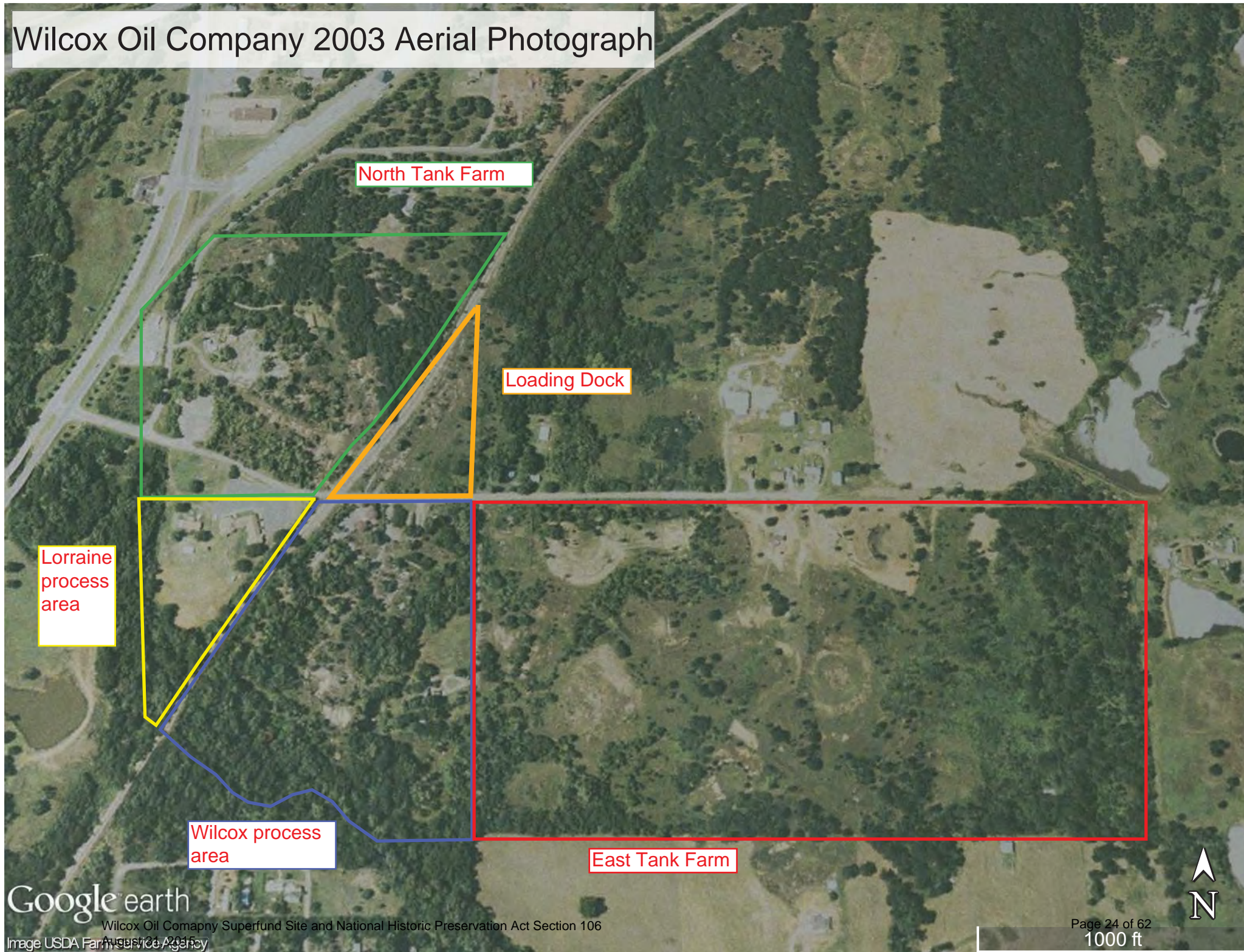
Page 23 of 62

1000 ft



Boundaries are approximate.

Wilcox Oil Company 2003 Aerial Photograph



Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image USDA Farm Service Agency

Boundaries are approximate.

Page 24 of 62

1000 ft



Wilcox Oil Company 2004 Aerial Photograph

North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image © 2015 DigitalGlobe, 2015

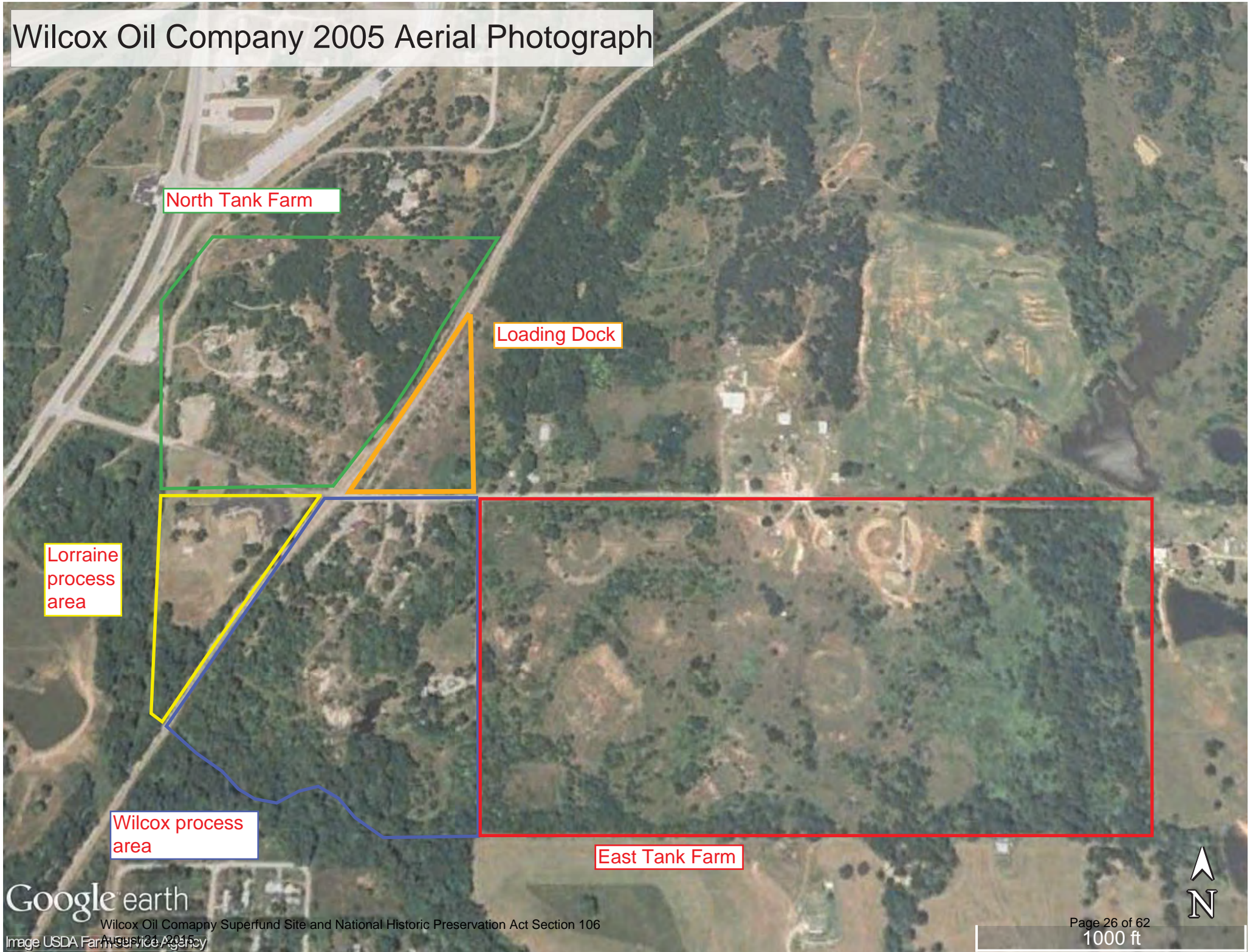
Boundaries are approximate.

Page 25 of 62

1000 ft



Wilcox Oil Company 2005 Aerial Photograph



North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106
Image USDA Farm Service Agency



Boundaries are approximate.

Wilcox Oil Company 2006 Aerial Photograph

North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image USDA Farm Service Agency

Boundaries are approximate.

Page 27 of 62

1000 ft



Wilcox Oil Company 2008 Aerial Photograph

North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image USDA Farm Service Agency

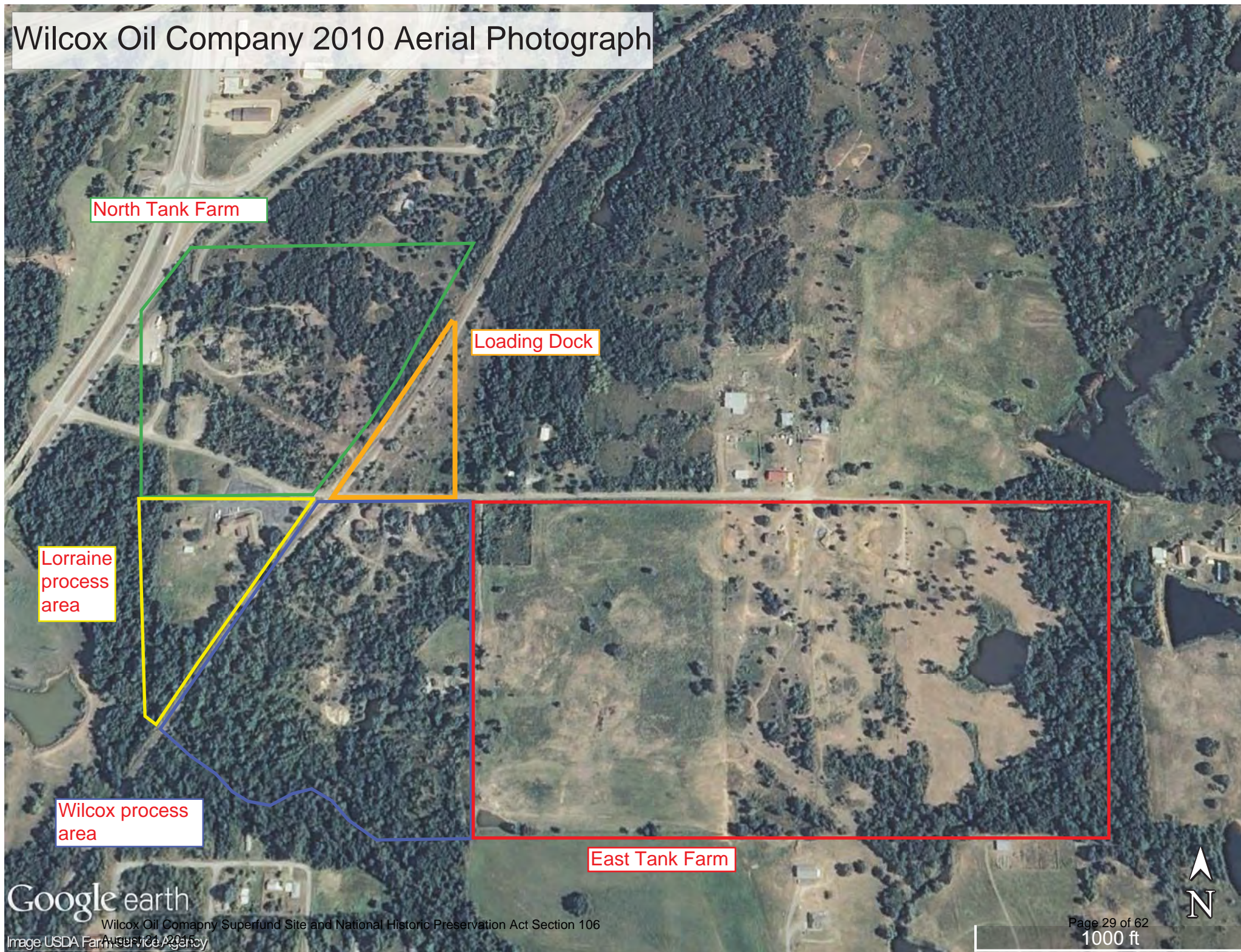
Boundaries are approximate.

Page 28 of 62

1000 ft



Wilcox Oil Company 2010 Aerial Photograph



North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm

Google earth

Wilcox Oil Company Superfund Site and National Historic Preservation Act Section 106

Image USDA Farm Service Agency

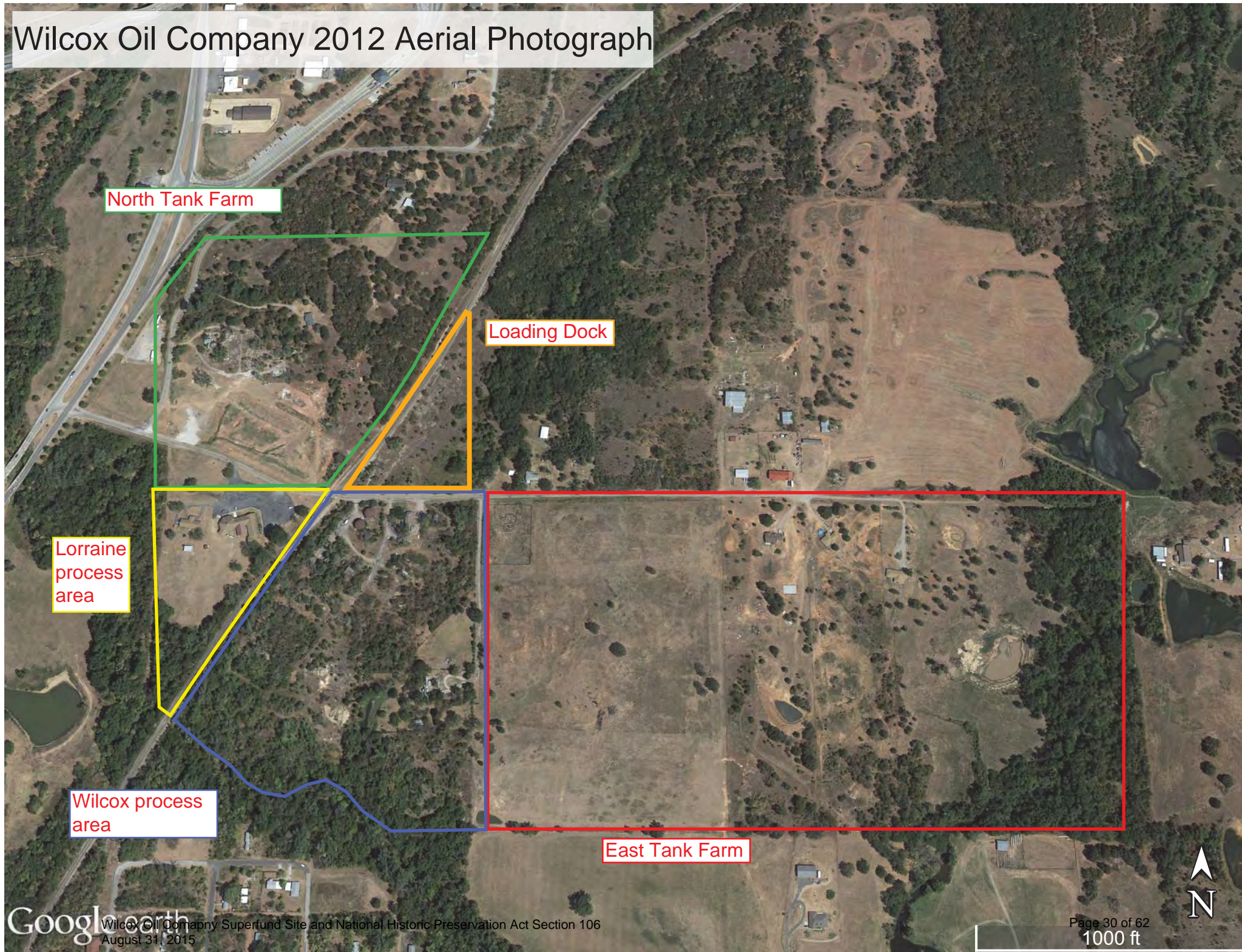
Boundaries are approximate.

Page 29 of 62

1000 ft



Wilcox Oil Company 2012 Aerial Photograph



North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm



Wilcox Oil Company 2014 Aerial Photograph

North Tank Farm

Loading Dock

Lorraine
process
area

Wilcox process
area

East Tank Farm



Enclosure 2c: Site photographs



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

SUPERFUND DIVISION

1445 Ross Avenue, Suite 1200

Dallas, Texas 75202-2733

MEMORANDUM

To: File

Todd Downham
ODEQ Project Manager

From: Katrina Higgins-Coltrain
EPA Remedial Project Manager

Subject: March 24, 2015, Wilcox Oil Company Superfund Site Tour Summary

On March 24, 2015, the Oklahoma Department of Environmental Quality (ODEQ) and the Environmental Protection Agency (EPA) met at the Wilcox Oil Company Superfund Site to tour the site and meet with residents. The purpose of the visit was to better understand the potential distribution of contamination, determine the need for site fencing and signage, and ask nearby residents if they would be interested in having their yards tested.

Below are photographs taken during the site tour and a reference map. Two residents supported having their yards tested and signed consent forms. Four other residents were interested and accepted the consent form for review and discussion prior to signing. Three residents were not home, and follow-up discussions are planned. One of these is known to have small children. Three residents have moved out of homes. Two on the site and one across the street. One moved due to site conditions. Based on conversations with neighbors, the other two residents moved due to matters unrelated to site conditions. The residents were provided a brief discussion of the sampling, the Superfund Process map, fact sheets on the site, and fact sheets related to the contaminants lead, total petroleum hydrocarbons, and polycyclic aromatic hydrocarbons.

Site Participants included Todd Downham (ODEQ), Katrina Higgins-Coltrain (EPA), and Mark Hayes (EPA). We met with [REDACTED] (church), [REDACTED] (church), [REDACTED] (consultant to the church), [REDACTED] (resident), [REDACTED] (resident), [REDACTED] (resident), [REDACTED] (resident), and one additional resident name not recorded.



Picture 1 – Property 10: Waste material at surface. Northwest side of property on the upper bank of Sand Creek.



Picture 2 – Property 10: Waste material at surface. West side of property on the upper bank of Sand Creek.



Picture 3 – Property 10: Waste material at surface. Southwest side of property.



Picture 4 – Property 10: Waste material at surface. Southwest side of property on the upper bank of Sand Creek within the utility right-of-way. Utilities work on the poles resulted in waste discovery.



Picture 5 – Property 10: Waste material at surface. Southwest side of property on the upper bank of Sand Creek within the utility right-of-way. Utilities work on the poles resulted in waste discovery.



Picture 6 – Property 10: East Bank of Sand Creek along the northwest of the property. Iron staining and Iron sheen. No visible seep; however, resident has seen an oil substance seep in this area.



Picture 7 – Property 10: East Bank of Sand Creek. No visible seep; however, resident has seen an oil substance seep in this area. Iron staining and Iron sheen.



Picture 8 – Property 10: The steep banks of Sand Creek viewing south.



Picture 9 – Property 10: Sand Creek culvert under the railroad tracks on the south end of the property.



Picture 10 – Property 8: Process Area building remnant.



Picture 11 – Property 8: Process Area building remnant.



Picture 12 – Property 8: Process Area Tank.



Picture 13 – Property 8: Process Area trash and accumulated items.



Picture 14 – Property 8: Process Area building remnant. Underground ‘sumps’ with connecting tunnels.



Picture 15 – Property 8: Process Area building remnant.



Picture 16 – Property 8: Process Area building remnant.



Picture 17 – Property 8: Process Area building remnant.



Picture 18 – Property 8: Waste material at surface.



Picture 19 – Property 8: Process Area building remnant.



Picture 20 – Property 8: Process Area building remnant.



Picture 21 – Property 8: Waste material at surface.



Picture 22 – Property 8: Process Area building remnant.



Picture 23 – Property 8: Process Area Tank.



Picture 24 – Property 8: Process Area ‘foundation’ pond. This is a concrete form that is filled with water. No idea on depth.



Picture 25 – Property 8: Process Area ‘foundation’ pond. This is a concrete form that is filled with water. No idea on depth.



Picture 26 – Property 8: Process Area building remnant.



Picture 27 – Property 8: Process Area building remnant.



Picture 28 – Property 8: Process Area soil. Area of no vegetation and potentially the location of historic acid/caustic tanks.



Picture 29 – Property 8: Pond in the Process Area on adjacent Property 11.



Picture 30 – Property 8: Process Area waste at surface.



Picture 31 – Property 8: Process Area building remnant.



Picture 32 – Property 8: Process Area tank.



Picture 33 – Property 8: Process Area tank.



Picture 34 – Property 8: Process Area ‘sump’.



Picture 35 – Property 8: Process Area ‘sump’.



Picture 36 – Property 8: Process Area rail car. This car was labeled *Enjay*, a division of *Humble Oil Refining*, UTLX 83010, Union Tank Car Company.



Picture 37 – Property 8: Process Area building remnant.



Picture 38 – Property 8: Process Area building remnant.



Picture 39 – Property 8: Process Area building remnant.



Picture 40 – Property 8: Process Area potential waste at surface.



Picture 41 – Property 8: Process Area tank.



Picture 42 – Property 8: Process Area tanks.



Picture 43 – Property 7: Waste Material at surface.



Picture 44 – Property 7: Waste Material at surface.



Picture 45 – Property 7: Waste Material at surface.



Picture 46 – Property 7: Waste Material at surface.



Picture 47 – Property 7: Pond located in the southwest corner.

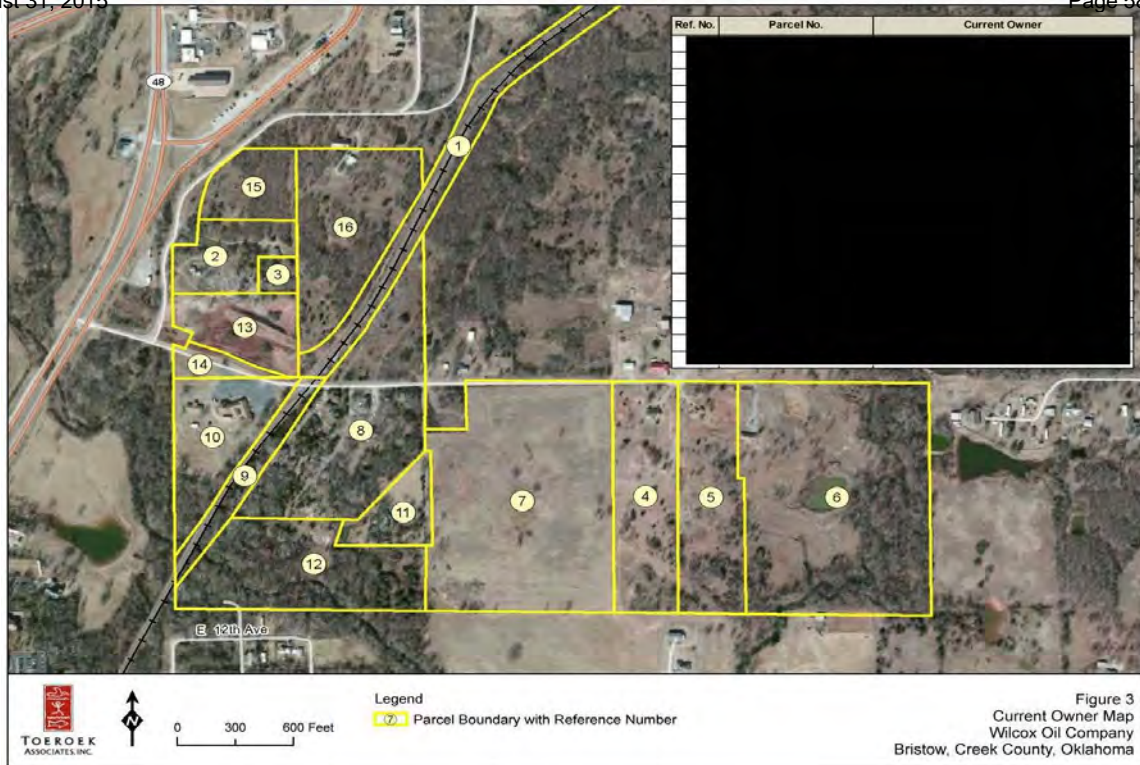


Figure 1: Reference figure for cited properties.

Enclosure 3: Summary description of the effort we made to identify historic properties

In an effort to identify historic properties within the project area letters were sent to the Oklahoma Historical Society (July 14, 2015) and the Oklahoma Archeological Survey (July 14, 2015) to assist in identification of historical locations/properties in the area. In addition, the Oklahoma online registries were searched. In response on July 27, 2015, the Oklahoma Archeological Survey did not identify archaeological sites within our project area; however, the letter indicated that archeological material are likely to be encountered. In response on July 29, 2015, the Oklahoma Historical Society indicated that a determination could not be made at this time due to insufficient information.

Oklahoma Listings in the National Register of Historic Places

The following districts, buildings, sites, structures, and objects are listed in the National Register of Historic Places as of July 10, 2015. Each entry includes: property name (followed in parentheses by archaeological site number and/or name of MPS, MRA or TR nomination, if any of these designations are applicable); location (unless this information is restricted); date of listing; National Register Criteria Code(s) under which the property was listed; any appropriate HABS, HAER and/or NHL designations; and the National Register Information System (NRIS) assigned number; and if the property has been removed from the National Register, that information will be noted in parentheses.

Creek County (Code 037)

Please refer to the National Registry Map for locations.

Bristow:

1. Beard Motor Company
[Route 66 & Associated Historic Resources in Oklahoma MPS], 210 East 9th, 5/27/04, A,C, 04000522.
2. Bristow Firestone Service Station
[Route 66 & Associated Historic Resources in Oklahoma MPS], 321 North Main, 9/6/07, A,C, 07000912.
3. Bristow Motor Company Building
[Route 66 & Associated Historic Resources in Oklahoma MPS], 500 North Main, 2/23/95, A, 95000032.
4. Bristow Presbyterian Church
6th & Elm, 10/3/79, C,a, 79001992.
5. Bristow Tire Shop
[Route 66 & Associated Historic Resources in Oklahoma MPS], 115 West 4th, 2/23/95, A,C, 95000033.
6. Texaco Service Station
[Route 66 & Associated Historic Resources in Oklahoma MPS], 201 West 4th, 2/23/95, A,C, 95000034.

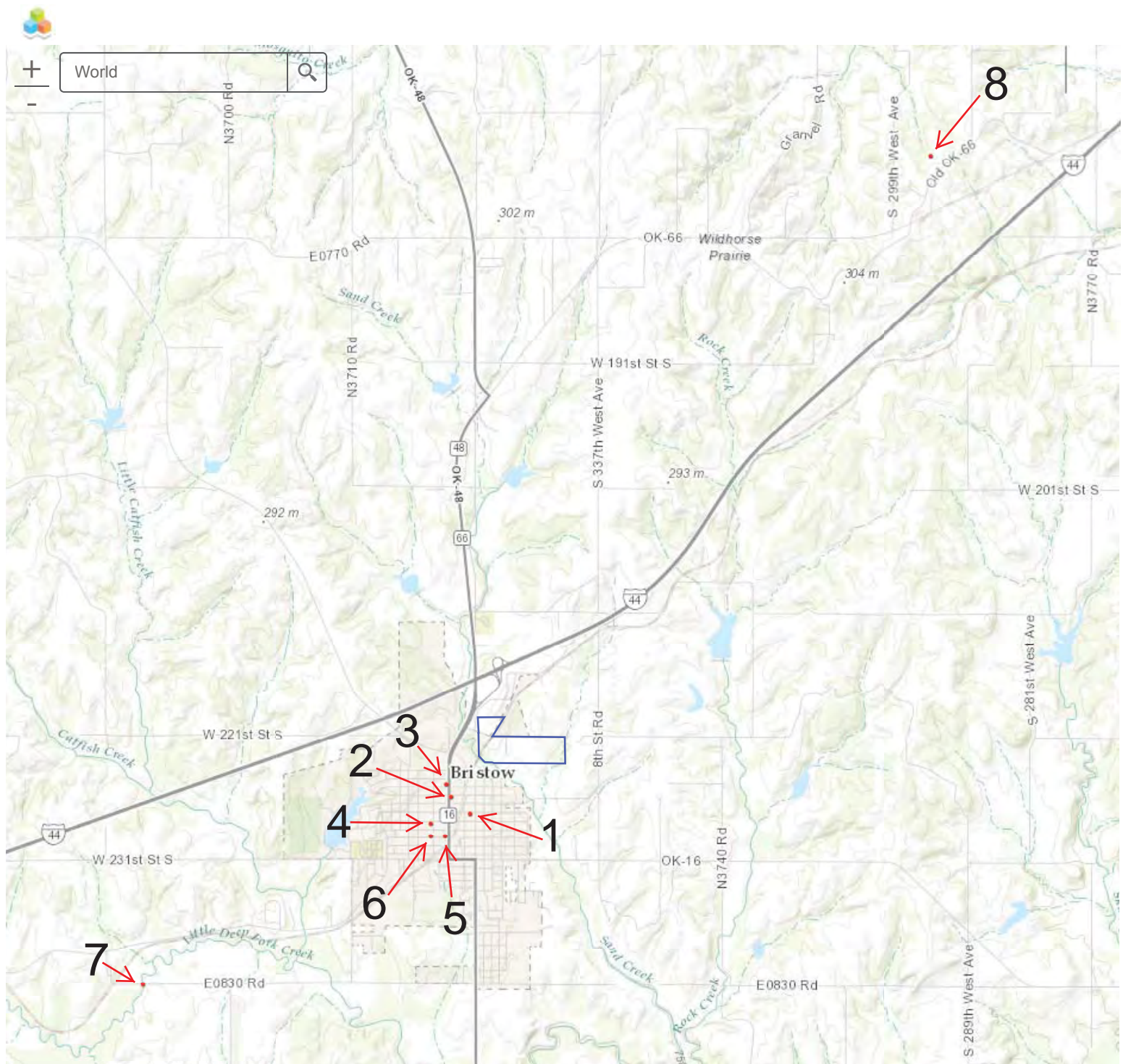
Bristow vicinity:

7. Little Deep Fork Creek Bridge
[Route 66 & Associated Historic Resources in Oklahoma MPS], .33 mile East of Jct. of County Roads #E0830 & #N3700, 12/5/03, A,C, 03001237.
8. Tank Farm Loop Route 66 Roadbed
[Route 66 & Associated Historic Resources in Oklahoma MPS], Jct. of SH-66 & Old Highway 66, .6 mile West of I-44 Overpass, 9/6/06, A,C, 06000797.

Following is a guide to the codes used in the entries.

- A,B,C, or D: Listed in the National Register for Criterion A, association with important events; B, association with important persons; C, architectural, artistic, or design merit, or representative of a period or a type of construction; or D, likely to yield information.
- a - g: Property types eligible for the National Register only under special circumstances: (a) religious property; (b) moved property; (c) birthplace or grave; (d) cemetery; (e) reconstructed property; (f) commemorative property; or (g) property less than fifty (50) years old when listed.
- AD: Additional Documentation.
- HABS: Documented by the Historic American Buildings Survey.
- HAER: Documented by the Historic American Engineering Record.
- MPS: Individually listed as part of a Multiple Property Submission.
- MRA: Individually listed as part of a Multiple Resource Area nomination.
- NHL: Designated a National Historic Landmark.
- TR: Individually listed as part of a Thematic Resource nomination.

Reference: National Register Handbook. State Historic Preservation Office, Oklahoma Historical Society.
(<http://www.okhistory.org/shpo/NRHANDBK.htm>). July 10, 2015.



- Historic Locations
- Approximate Project Boundary
- 1 number representing historic location



- | | |
|----|-----------------------------------|
| 1. | Beard Motor Company |
| 2. | Bristow Firestone Service Station |
| 3. | Bristow Motor Company Building |
| 4. | Bristow Presbyterian Church |
| 5. | Bristow Tire Shop |
| 6. | Texaco Service Station |
| 7. | Little Deep Fork Creek Bridge |
| 8. | Tank Farm Loop Route 66 Roadbed |

Enclosure 4: Basis for determining that no historic properties are present or affected

Based on our review of the National Register of Historic Places, the history of operation, and investigations performed by ODEQ, no State cultural or historical resources or properties are located within the project boundary or will be affected by the investigation and potential remediation that will be conducted by EPA and the ODEQ.

1. Review of the National Register of Historic Places, did not identify any resources or landmarks located within the project boundaries.
2. The Site property was the location of an active oil refinery from approximately 1915 to 1963.
3. Aerial photographs of the Site show refinery operations extended across the entire Site. When operations ceased, most of the refinery buildings, tanks, piping, and infrastructure were dismantled, demolished, and left for ruin. The only activity conducted was the sale and construction of single family homes and a church. The church and the homes exists today.
4. Site photographs show the location of refinery waste material throughout the Site property. The location of the waste material coincides, in many cases, with the locations of the process area and individual tank locations in the tank farm areas.
5. Investigations conducted by ODEQ show waste to be present. High concentrations of organics and metals have been found in soil, sediment, and surface water. Ground water is expected to be impacted due to the presence of a light non-aqueous phase liquid (i.e., a liquid that does not dissolve in water and floats on the water's surface) near the church. The exact size and extent is currently unknown.

As part of the investigation, Site field studies including subsurface testing, will be conducted. Should new information becomes available that would indicate the presence of cultural or historical resources, we will coordinate with your office on any future actions.